

Docket No.: 0171-1251PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Takuji YOSHIMOTO et al.

Application No.: 10/562,065

Confirmation No.: 9625

Filed: December 22, 2005

Art Unit: N/A

For: 1, 4-BENZODIOXANE SULFONIC ACID COMPOUND AND USE THEREOF AS

Examiner: Not Yet Assigned

ELECTRON-ACCEPTOR MATERIAL

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Subsequent to the filing of the above-identified application on December 22, 2005, attached hereto is an English translation of the International Preliminary Examination Report (Form PCT/IPEA/409) that should be made of record in the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any Application No.: 10/562,065 Docket No.: 0171-1251PUS1

additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: June 13, 2006

Respectfully submitted,

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By cons 200: #42874

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Attachment(s)

Translation

PATENT COOPERATION TREATY

PCT/JP2004/009210

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FAP-3879	FOR FURTHER ACT	rion	See Form PCT/IPEA/416				
International application No.	International filing date 23 June 2004 (2		Priority date (day/month/year) 25 June 2003 (25.06.2003)				
РСТ/ЈР2004/009210			23 Julie 2003 (23.00.2007)				
International Patent Classification (IPC) or national classification and IPC C07D 319/20, H05B 33/14, 33/22							
Applicant NISSAN CHEMICAL INDUSTRIES, LTD.							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
This report contains indications relating to the following items:							
Box No. I Basis of the re	Box No. I Basis of the report						
Box No. II Priority							
Box No. III Non-establish	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity	Box No. IV Lack of unity of invention						
Box No. V Reasoned star citations and	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain docur	•						
Box No. VII Certain defec	ts in the international app	olication					
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion	of this report				
12 January 2005 (12.01.2005)		09 May 2005 (09.05.2005)					
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No.		Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/009210

Bo	x No.	I Basis of the report							
	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 								
		This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:							
		international search (under Rules 12.3 and 23.1(b))							
		publication of the international application (under Rule 12.4)							
		international preliminary examination (under Rules 55.2 and/or 55.3)							
j	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):								
	\succeq	The international application as originally filed/furnished							
ļ		the description:							
		pages, as originally filed/furnished							
		pages* received by this Authority on							
		pages* received by this Authority on							
		the claims:							
		pages, as originally filed/furnished							
		pages*, as amended (together with any statement) under Article 19 pages* received by this Authority on							
		pages* received by this Authority on pages* received by this Authority on							
1									
		the drawings: pages , as originally filed/furnished							
		received by this Authority on							
		pages* received by this Authority on							
ı									
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.							
3.		The amendments have resulted in the cancellation of:							
		the description, pages							
		the claims, Nos.							
		the drawings, sheets/figs							
		the sequence listing (specify):							
		any table(s) related to sequence listing (specify):							
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).								
	the claims, Nos.								
	the drawings, sheets/figs								
	the sequence listing (specify):								
		any table(s) related to sequence listing (specify):							
		any taole(s) related to sequence fishing (specify).							
* .	lf item	4 applies, some or all of those sheets may be marked "superseded."							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009210

Box No. V Reasoned statement citations and explana	l statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; and explanations supporting such statement						
1. Statement							
Novelty (N)	Claims	1-6	YES				
	Claims		NO				
Inventive step (IS)	Claims	1-6	YES				
	Claims		МО				
Industrial applicability (IA)	Claims	1-6	YES				
	Claims		NO				

2. Citations and explanations (Rule 70.7)

Document 1) JP, 6-199825, A

Document 2) FR, 2747678, A1

Document 3) JP, 2001-106782, A

The inventions relating to claims 1-6 are not disclosed in any of the documents cited in the ISR; therefore, they appear to be novel. In particular, a compound represented by Formula (1) or (2), or a compound having a repeating unit represented by Formula (3) or (4) is not disclosed in any of the documents.

Also, the inventions described in claims 1-6 appear to involve an inventive step based on the documents cited in the ISR. Based on the compound described in documents 1-3, with the purpose of obtaining an electron accepting substance, obtaining a compound represented by Formula (1) or (2), or a compound having a repeating unit represented by the Formula (3) or (4) are not obvious to a party skilled in the art.